CLAIMS:

I claim:

1. A securement device for a percutaneous sheath introducer or other medical articles comprising:

a pad having an adhesive surface on one side thereof adapted to adhere to the skin of a patient when exposed to the atmosphere;

a peel off backing sheet adhering to at least a portion of said pad and adapted to expose said pad to the atmosphere when peeled away from said pad;

a securement base fixedly secured to said pad, said base having one or more spaced holes extending therethrough, said base being comprised of a first upper support base portion secured to a second lower support plate, said support plate being secured to said pad; and

at least one elongated strand having a free end extending through said one or more holes disposed on said base and secured thereto by tying the free end of said least one strand either upon itself or to another free end of the same or other strand and about said connector thereby fixedly securing the strand to said base.

2. The device of claim 1 wherein a flexible beam is embedded in said second lower support plate, said strand extending through said beam when inserted into the holes in said base.

3. The device of claim 1 wherein at least 1 spaced hole and at least 1 strand is provided.

4. The device of claim 1 wherein said one or more spaced holes through said base include at least one or more hole portion extending through said upper support base portion and at least one or more hole portion extending through said lower support plate, said hole portions being aligned to form said at least one or more spaced holes through said base.

5. The device of claim 1 wherein said base has a concave portion in substantially the middle thereof.

6. The device of claim 1 wherein said base has a first elongated end wall spaced from a second elongated end wall, and said end walls are interconnected by spaced side walls curving inwardly at generally the midpoint thereof.

7. The device of claim 6 wherein said base has a concave portion at generally the midpoint thereof extending from one of said side walls where said side wall curves inwardly to the other.

8. The device of claim 7 wherein one end of said concave portion is raised with respect to the other.

9. The base of claim 7 wherein one end of said base adjacent one of said end walls slopes inwardly toward the center, then downwardly toward the other end wall to form a center raised portion.

10. The device of claim 1 including a plurality of spaced protrusions upwardly extending from said base.

11. The device of claim 10 wherein said protrusions are conically shaped having a wide base portion at its connection to said base extending upwardly to a rounded tapered end.

12. The device of claim 10 wherein said protrusions are hemispherically shaped.

13. The device of claim 11 wherein said protrusions vary in overall height.

14. The device of claim 12 wherein said protrusions vary in overall height.

15. The device of claim 1 wherein said base is of a polycarbonate material.

16. The device of claim 1 wherein said base is of a plastic material.

17. The device of claim 1 wherein said pad is of a fabric material overlaid by a hydrocolloid adhesive material.

18. The device of claim 1 wherein said at least one strand is of a silk material.

19. The device of claim 1 wherein said at least one strand is of flexible material.

20. The device of claim 1 wherein said at least one strand is of a flexible material substantially non-extendable along its long axis.

21. The device of claim 1 wherein the free ends of said at least one strand terminate in a hardened end.

22. The device of claim 1 wherein said upper support base portion is of a polymeric material.

23. The device of claim 1 wherein said holes extending through said base include hole portions through tabs cut out of the upper surface of said base and attached at one end to the upper surface of said base and said hole portions communicating with hole portions through the remainder of said base.

24. The device of claim 1 wherein a flexible beam is embedded in said second lower support plate conforming substantially to the configuration of said lower support plate and to a connector disposed on said base, said strand extending about and under said beam when inserted into the said one or more holes in said base.

25. The device of claim 1 wherein a flexible beam is integral with said lower support plate conforming to the configuration of said lower support plate, said securement base of said lower support plate, varying in hardness from the top to bottom thereof, said strand extending about and under said beam when inserted into the said one or more holes in said base.

26. The device of claim 24 wherein said beam creates and maintains tension on said at least one strand when it is secured to said base.

27. The device of claim 26 wherein said at least one strand is knotted in said at least one hole through said base.

28. The device of claim 27 wherein said at least one strand is glued to the underside of said ramp.

29. The device of claim 1 wherein said at least one hole is cylindrical and radiused about the bottom thereof.

30. A securement device for a percutaneous sheath introducer or other medical articles comprising:

a pad having an adhesive surface on one side thereof adapted to adhere to the skin of a patient when exposed to the atmosphere;

a peel off backing sheet adhering to at least a portion of said pad and adapted to expose said pad to the atmosphere when peeled away from said pad;

a securement base fixedly secured to said pad, said base having one or more spaced holes extending therethrough, said base being comprised of a first upper support base portion secured to a second lower support plate, said support plate being secured to said pad; and

at least one flexible elongated strand having a free end one extending through said one or more holes disposed in said base and secured thereto.

31. The device of claim 30 wherein said at least one strand has one end knotted in said hole extending through said base at the bottom thereof.

32. The device of claim 30 wherein said at least one strand has one end glued at the bottom thereof to said base.

33. The device of claim 30 wherein said at least one hole is cylindrical and radiused about the bottom thereof.

34. The device of claim 30 wherein at least two holes are provided, one of said holes extending through a tab on the upper surface of said base, the other of said holes being disposed in a post extending upwardly from said base spaced from said tab, said at least one strand extending upwardly through said one of said holes and knotted at the bottom of the hole through said base, then through the hole in said post where the free end of said strand is adapted to be tied to itself and about a connector on the upper surface of said base.

35. The device of claim 34 wherein a concave area is provided in the upper support base portion extending across said base, said concave area having a raised portion at generally the middle thereof.

36. The device of claim 34 including a plurality of protrusions extending upwardly from said base.

37. The device of claim 36 wherein said post extends upwardly from said base above said protrusions, said hole through said post being at the upper end thereof.